云南省的单殖吸虫

Ⅱ. 洱海几种土著鱼的指环虫新种记述

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作者等于1964年、1977年在洱海等地,从洱海四须鲃Barbodes (Bar.) daliensis Wu et Lin.、油四须鲃B.(Bar)exigua Wu et Lin.及大理裂腹鱼 Schizothorax (Schizopyge) taliensis Regan的鳃片上各发现一种指环虫,均属新种,现分述于后:

文内量度以毫米为单位。正、副模式标本分存于华东师范 大 学 及 昆明师范学院生物系。

洱海指环虫Dactylogyrus erhaiensis, 新种 (图1)

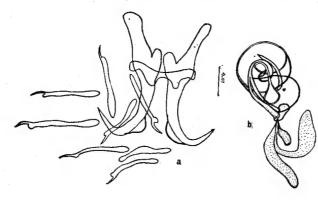


图 1 洱海指环虫 Dactylogyrus erhaiensis, 新种 a.中央大钩: b.雄生殖器。

为中形指环虫,体长0.435-0.535,宽0.075-0.10,咽直径0.013-0.025。

后吸器具有二联结片。边缘小钩长0.019-0.032,第二对最长,第六对最短。中央大钩同D. wunderi Bych型,全长0.040-0.043,基部长0.028-0.031,内突长0.015-0.017,外突长0.003-0.005,钩尖长0.011-0.012。联结片形直,大小为0.002-0.003×0.020-0.025,前缘微凹,两端稍膨大,后缘具两个乳状突。辅片条状,0.001-0.002×0.016-0.018。

交接器细长,基部膨大,直径0.006-0.007,其余管径0.001,管多盘绕2-3圈,

全长据弯度为0.053-0.057。支持器似筋骨状,基部宽扁,中部较细,端部膨大呈匙状,正中具一小孔,交接管似由孔中穿过,全长0.030-0.034。

卵大小为0.068-0.036。阴道未见。描述据8个封片标本。

宿主: 洱海四须鲃Barbodes (Bar.) daliensis Wu et Lin.

分布, 洱海。

本种交接器及中央大钩均近似喙指环虫Dactylogyrus rhynchoideus Long, 但支持器的细微结构不同。

油四须鲃指环虫Dactylogyrus exiguus 新种 (图 2)

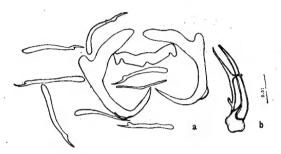


图 2 油四须鲃指环虫 Dactylogyrus exiguus, 新种

a.中央大钩; b.雄生殖器

体形小,长0.281-0.350,宽0.056-0.081;咽0.008-0.014×0.003-0.011。

后吸器具二联结片,边缘小钩0.015—0.029,以第四对最长,第六对最短。中央大钩似D. macracanth Wegener,全长0.024—0.039,基部长0.017—0.029,内突长0.014—0.016,外突长0.003—0.004,钩尖长0.007—0.010。联结片呈浅"笔架"状,大小为0.002×0.016—0.020。辅片细条形,宽0.014—0.018。

交接器简单,长0.029-0.033,中部管径0.001-0.002。具基座。支持器桥状,中部及基部各有一侧突,其近中部者,似钩住交接管中部,全长0.029-0.033。

卵及阴道未见。描述据6个封片标本。

宿主: 油四须鲃 Barbodes (Bar.) exigua Wu et lin 分布, 洱海。

本种交接器近似D. vastator Nybelin, 但本种中央大钩内突较长,并具辅片。

大理指环虫Dactylogyrus daliensis 新种(图3)

中形蠕虫,长0.541-0.895,宽0.125-0.162;咽大小为0.033-0.035。

后吸器仅见一联结片。边缘小钩长0.024—0.043,以第 3 对钩最长,第 7 对最短。中央大钩基部有一不规则小孔,全长0.067—0.075,基部长0.047—0.058,内突长0.027—0.033,外突长0.007—0.010,钩尖长0.016—0.018。联结片棒状,大小为0.005—0.008×0.045—0.047。

交接器全长0.047-0.050, 交接管细长,基部囊状,直径0.008-0.010,其余管径约0.001,全长据曲度为0.077-0.083。支持器基部稍膨大,中部似鸟颈,前端由几片几丁质片组成,似鸟的头骨,交接管弯折后,似由"枕孔"部通出,再沿几丁质片向前延伸。

阴道长0.022-0.026。卵未见。描述据5个封片标本。

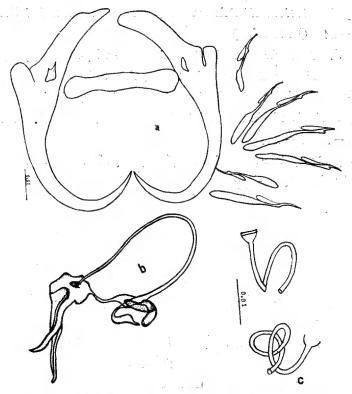


图 3 大理指环虫 Dactylogyrus daliensis, 新种 a.中央大钩; b.维生殖器; c.阴道.

宿主: 大理 裂 腹 鱼 Schizopyge (Schizop.) taliensis Regan、重 口 裂 腹 鱼 S. (Schizop.) daridi (Sauv.)、南方裂腹鱼 Schizothorax (Schizoth.) molesworthi meridionalis Tsao.

分布, 洱海、四川等。

本种中央大钩近似D. longsoi Gussev, 但支持器结构不同, 也有别于上述新种。

参考文献

郎 所 1981 海南岛淡水鱼类单殖吸虫区系。动物学报, 27 (1), 75-85。

郎 所 1978 中华鲮鱼的寄生单殖吸虫。上海师范大学学报(自然科学版), 1:87—93。

骆永德、郎所 1977 云南省的单殖吸虫 **I.** 滇池及 其 邻近湖泊的单殖吸虫。中国 动物学会寄生虫学学术讨论会资料138号。

湖北省水生生物研究所 1973 湖北省鱼病病原区系图志。科学出版社。第112—157 页。

Dzhalilov, U. D. 1970 New monogeneans of fish the Pyandzh river. *Parasito-logiya*, 4(4):316-320. (In Russian)

Dzhalilov, U. D. & M. Ashurova, 1971 A new monogenean species from Schi-

zopygopsis stoliczkai Steindachner. DNA Tadzhikskoi SSR, Ibid, 14 (4):83-84. (In Russian)

- Gussev, A. V. 1962 Monogenetic trematodes. In Bychowsky, B. E.:Dianosis of parasites of freshwater fishes in SSSR. AN SSSR, Moscow. (In Russian)
- Gussev, A. V. 1976 Freshwater Indian Monogenoidea. Principles of systematics, analysis, analysis of fauna and their evolution. *Ind. J. Helm.* (1973—1974) 25—26: 1—241.
- Yamaguti, S. 1963 Systema Helminthum, vol. IV. Monogenea and Aspidocotylea.

 John Wily, N. Y. 699 pp.

MONOGENEA OF YUNNAN PROVINCE

I. New Dactylogyrus from Erhai lake fishes

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Three new species of *Dactylogyrus* are reported from Erhai lake fishes of Yunnan Province. They are characterized as follows:

All measures are in mm.

1. Dactylogyrus erhaiensis sp. nov.

Medium size worm, $0.435-0.535\times0.075-0.100$. pharynx 0.013-0.025 in diameter.

7 pairs of marginal hooklets, 0.019—0.032 in length, with the 2nd pair the longest and the 6th the shortest. Central large hooks *D. wunperi* Bych. type. Total length 0.040—0.043, basal portion 0.028—0.031, inner root 0.015—0.017, outer root 0.003—0.005, point 0.011—0.012. Connective bar straight, 0.002—0.003×0.020—0.025. Supplementary plate a narrow stick, 0.001—0.002×0.016—0.018.

Copulating tube thin and long and with an enlarged base, 0.006—0.007 in diameter, the tube coils 2—3 times and measures 0.053—0.057 according to its

curvature. Supporting piece I-shaped with a small piece attached on its tail end.

Egg 0.068 × 0.036. Measurements based on 8 specimens.

Host. Barbodes (Bar.) daliensis Wu et Lie.

Location, Gills.

Distribution, Erhai, Yunnan.

Type and paratype, deposited separately in the Biology Department of East China Normal University and Kunming Normal College.

This species resembles to *Dactylogyrus rhynchoideus* Long, 1981, but the supporting piece of the copulating apparatus is different in detail.

2. Dactylogyrus exiguus sp. nov.

Minute worm, $0.281-0.350\times0.056-0.081$. Pharynx $0.008-0.014\times0.003$ -0.011.

Opithohaptor with two connective bars. 7 pairs of marginal hooklets, 0.015—0.029 in length, with the 4th the longest and the 6th the shortest. Central large hooks are of D. macracanthus Wegener type. Total length 0.024—0.039, basal portion 0.017—0.029, inner root 0.014—0.016, outer root 0.003—0.004, point 0.007—0.010. Connective bar with enlarged ends, 0.002×0.016—0.020. Supplementary plate a thin stick, 0.014—0.018 in width.

Copulatory apparatus simple, 0.029—0.033 in length. Copulating tube with an enlarged base and becomes narrower graduelly; supporting piece simple and with a lateral process on the middle and another process near the base.

Measurements based on 6 mounted specimens.

Host: Barbodes exigua Wu et Lin.

Location, Gills.

Distribution: Erhai, Yunnan.

Type and paratype, deposited in the Biological Department of East China Normal University and Kunming Normal College.

This species is similar to *D. vastator* Nybelin, 1924, but the inner root of the central large hooks is much longer than that of the latter. It also has a supplementary plate, so it is new to science.

3. Dactylogyrus daliensis sp. nov.

Medium size worm, $0.541-0.895\times0.125-0.126$. Pharynx 0.033-0.035 in diameter.

Opisthohaptor with only one connective bar. 7 pairs of marginal hooklets, 0.024—0.043 in length, with the 3rd pair the longest, and the 7th pair the shortest. Central large hooks: total length 0.067—0.075, basal portion 0.047—0.058, inner root 0.027—0.033, outer root 0.007—0.010, point 0.016—0.018. Connective bar 0.005—0.008×0.045—0.047.

Copulatory apparatus 0.047—0.050 in length. Copulating tube thin and long, with the base swelled, 0.008—0.010 in diameter, the tube length according to its curvature, 0.077—0.083. Supporting piece looks like a bird head and through which the tube penetreats.

Vagina tubular, 0.022—0.026 in length. Egg not seen. Measurements based on 5 mounted specimens.

Host, Schizothorax (Schizopyge) taliensis Regan.

- S. (Schizopyge) daridi (Sauv.)
- S. (Schizoth.) molesurrthi meridionalis Tsao

Location, Gills.

Distribution, Erhai and Chenghai of Yunnan and Sichuan.

Type and paratype, deposited separately in East China Normal University and Kunming Normal College.

This species resembles to *D. longsoi* Gussev, 1962, but differs from it by the detail structure of the supporting piece of the copulatory apparatus and also differs from other species sofar reported on *Schizothorax*.